

550,194

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/082405 A1

(51) International Patent Classification⁷: **A23L 3/015,**
B30B 5/02

Nils-Gunnar [SE/SE]; Harakersgatan 8, S-723 43
Västerås (SE).

(21) International Application Number:
PCT/SE2004/000406

(74) Agent: AWAPATENT AB; P.O. Box 45086, S-104 30
Stockholm (SE).

(22) International Filing Date: 19 March 2004 (19.03.2004)

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:
0300764-8 21 March 2003 (21.03.2003) SE

(71) Applicant (for all designated States except US): FLOW
HOLDINGS SAGL [CH/CH]; Via Cantonale, CH-6805
Mezzovico (CH).

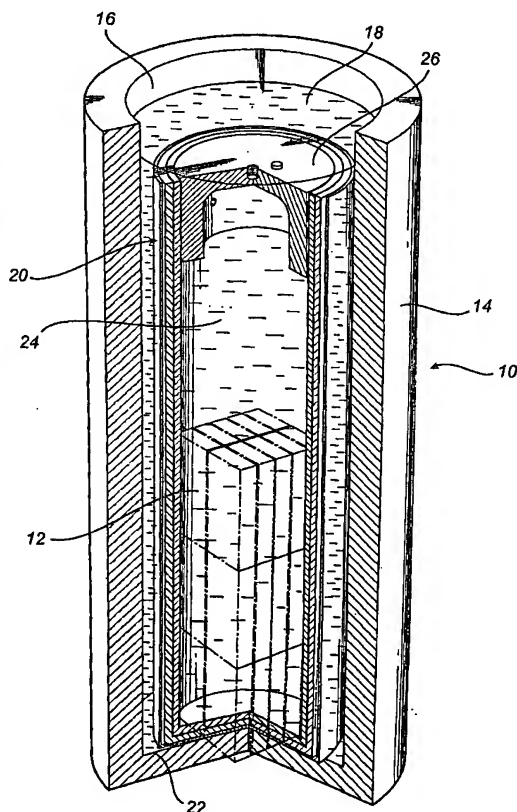
(72) Inventor; and

(75) Inventor/Applicant (for US only): LÖNNEBORG,

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: ISOSTATIC PRESS FOR HIGH PRESSURE TREATMENT



(57) Abstract: The present invention relates to an isostatic press (10) for high pressure treatment of a product (12) having a temperature below 0°C, said isostatic press (10) comprising a pressure chamber (16) adapted to contain a first pressure medium (18), and a container (20) which is placeable in the pressure chamber (16). The container (20) which is placeable in the isostatic press (10) is adapted to hold the product (12) and a second pressure medium (24), the container (20) being closable to keep the first pressure medium (18) separated from fluid communication with the second pressure medium (24). The container (20) is further provided with a pressure transfer means (26) adapted to transfer pressure from the first pressure medium (18) to the second pressure medium (24), and a body which is made of a material with low adiabatic heat emission relative to adjoining substances, so that the body from adjoining substances absorbs heat, which is generated by adiabatic temperature rise during the high pressure treatment. The invention also relates to a method, a container (20), a plant and use for high pressure treatment of a product (12) having a temperature below 0°C by means of an isostatic press (10).

WO 2004/082405 A1



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*